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RAW SEQUENCE LISTING PATENT APPLICATION: US/10/045,992

DATE: 01/28/2002 TIME: 14:14:39

Input Set : A:\053689-5006-01.ST25.txt Output Set: N:\CRF3\01282002\J045992.raw

ENTERED

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2 <110> APPLICANT: LINDNER, Volkhard
              FRIESEL, Robert E.
      5 <120> TITLE OF INVENTION: COMPOSITIONS, METHODS AND KITS RELATING TO REMODELIN
      7 <130> FILE REFERENCE: 053689-5006-01
     9 <140> CURRENT APPLICATION NUMBER: US/10/045,992
C--> 9 <141> CURRENT FILING DATE: 2001-10-19
      9 <150> PRIOR APPLICATION NUMBER: US 09/692,081
     10 <151> PRIOR FILING DATE: 2000-10-19
     12 <160> NUMBER OF SEQ ID NOS: 9
    14 <170> SOFTWARE: PatentIn version 3.1
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    17 <211> LENGTH: 1192
    18 <212> TYPE: DNA
    19 <213> ORGANISM: Rattus sp.
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    23 tgcctcctgc tctgcgcttc gcagctaccg cacacgatgc acccccaagg ccgcgccgcc
                                                                              120
    24 tececacage tgetgetegg cetetteett gtgetaetge tgettetgea getgteegeg
                                                                              180
    25 ccgtccagcg cctctgagaa tcccaaggtg aagcaaaaag cgctgatccg gcagagggaa
                                                                              240
    26 gtggtagacc tgtataatgg gatgtgccta caaggaccag caggagttcc tggtcgcgat
                                                                              300
    27 gggagccctg gggccaatgg catteetgge acacegggaa teceaggteg ggatggatte
                                                                             360
    28 aaaggagaga aaggggagtg cttaagggaa agctttgagg aatcctggac cccaaactac
                                                                             420
    29 aagcagtgtt catggagttc acttaattat ggcatagatc ttgggaaaat tgcggaatgt
                                                                             480
    30 acattcacaa agatgcgatc caacagcgct cttcgagttc tgttcagtgg ctcgcttcgg
                                                                             540
    31 ctcaaatgca ggaatgcttg ctgtcaacgc tggtatttta cctttaatgg agctgaatgt
                                                                             600
    32 tcaggacete tteccattga agetateate tatetggace aaggaageee tgagttaaat
                                                                             660
    33 tcaactatta atattcatcg tacttcctcc gtggaaggac tctgtgaagg gattggtgct
                                                                             720
    34 ggactggtag acgtggccat ctgggtcggc acctgttcag attaccccaa aggagacgct
                                                                             780
    35 totactgggt ggaattotgt gtoccgcatc atcattgaag aactaccaaa ataaagcccc
                                                                             840
    36 tgaaggtttc attccctgcc tcatttactt gttaaatcaa gcctctggat gggtcattta
                                                                             900
    37 aatgacattt cagaagtcac ttatgtgctc agccaaatga aaaagcaaag ttaaatacgt
                                                                             960
    38 ttacagacca aagtgtgatc tcacacttta agatctagca ttatccattt tatttcaacc
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    39 aaagatggtt tcaggatttt atttctcatt gattactttt tgagcctata taccggaatg
                                                                            1080
   40 ctgttatagt ctttaatatt teetaetgtt gaeattttga aacatataaa agttatgtet
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    45 <212> TYPE: PRT
    46 <213> ORGANISM: Rattus sp.
   48 <400> SEQUENCE: 2
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53 Phe Leu Val Leu Leu Leu Leu Gln Leu Ser Ala Pro Ser Ser Ala

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56 Ser Glu Asn Pro Lys Val Lys Gln Lys Ala Leu Ile Arg Gln Arg Glu
59 Val Val Asp Leu Tyr Asn Gly Met Cys Leu Gln Gly Pro Ala Gly Val
                            55
62 Pro Gly Arg Asp Gly Ser Pro Gly Ala Asn Gly Ile Pro Gly Thr Pro
                     . . 70
                                            75
65 Gly Ile Pro Gly Arg Asp Gly Phe Lys Gly Glu Lys Gly Glu Cys Leu
                   85
                                        .90
66
68 Arg Glu Ser Phe Glu Glu Ser Trp Thr Pro Asn Tyr Lys Gln Cys Ser
69
               100
                                    105
                                                      . 110
71 Trp Ser Ser Leu Asn Tyr Gly Ile Asp Leu Gly Lys Ile Ala Glu Cys
           115
                                120
                                                    125
74 Thr Phe Thr Lys Met Arg Ser Asn Ser Ala Leu Arg Val Leu Phe Ser
                           135
                                                140
77 Gly Ser Leu Arg Leu Lys Cys Arg Asn Ala Cys Cys Gln Arg Trp Tyr
                       150
                                            155
80 Phe Thr Phe Asn Gly Ala Glu Cys Ser Gly Pro Leu Pro Ile Glu Ala
                   165
                                        170
83 Ile Ile Tyr Leu Asp Gln Gly Ser Pro Glu Leu Asn Ser Thr Ile Asn
               180
                                    185
86 Ile His Arg Thr Ser Ser Val Glu Gly Leu Cys Glu Gly Ile Gly Ala
           195
                                200
89 Gly Leu Val Asp Val Ala Ile Trp Val Gly Thr Cys Ser Asp Tyr Pro
                            215
                                                220
92 Lys Gly Asp Ala Ser Thr Gly Trp Asn Ser Val Ser Arg Ile Ile Ile
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93 225
95 Glu Glu Leu Pro Lys
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99 <211> LENGTH: 1220
100 <212> TYPE: DNA
101 <213> ORGANISM: Homo sapiens
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105 cetecgeete cageteegeg etgeeeggea geegggagee atgegaeeee agggeeeege
                                                                           120
106 egectecceg cageggetee geggeeteet getgeteetg etgetgeage tgecegegee
                                                                           180
107 gtcgagcgcc tctgagatcc ccaaggggaa gcaaaaggcg cagctccggc agagggaggt
                                                                           240
108 ggtggacctg tataatggaa tgtgcttaca agggccagca ggagtgcctg gtcgagacgg
                                                                           300
109 gagccctggg gccaatggca ttccgggtac acctgggatc ccaggtcggg atggattcaa
                                                                           360
110 aggagaaaag ggggaatgtc tgagggaaag ctttgaggag tcctggacac ccaactacaa
                                                                           420
111 gcagtgttca tggagttcat tgaattatgg catagatctt gggaaaattg cggagtgtac
                                                                           480
112 atttacaaag atgcgttcaa atagtgctct aagagttttg ttcagtggct cacttcggct
                                                                           540
113 aaaatgcaga aatgcatgct gtcagcgttg gtatttcaca ttcaatggag ctgaatgttc
                                                                           600
114 aggacctett cecattgaag etataattta tttggaccaa ggaageeetg aaatgaatte
                                                                           660
115 aacaattaat attcatcgca cttcttctgt ggaaggactt tgtgaaggaa ttggtgctgg
                                                                           720
116 attagtggat gttgctatct gggttggcac ttgttcagat tacccaaaag gagatgcttc
                                                                           780
117 tactggatgg aattcagttt ctcgcatcat tattgaagaa ctaccaaaat aaatgcttta
                                                                           840
118 atttteattt getacetett tttttattat geettggaat ggtteaetta aatgacattt
                                                                           900
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119 taaataagtt tatgtataca totgaatgaa aagcaaagot aaatatgttt acagacot 120 gtgtgattto acactgtttt taaatotago attattoatt ttgottoaat caaaagt 121 ttoaatattt ttttagttgg ttagaatact ttottoatag toacattoto toaacot 122 atttggaata ttgttgtggt ottttgttt ttotottagt atagcatttt taaaaaa 123 taaaagotac caatotttgt acaatttgta aatgttaaga atttttta tatotgt 124 ataaaaatta tttocaacaa 126 <210> SEQ ID NO: 4 127 <211> LENGTH: 243 128 <212> TYPE: PRT 129 <213> ORGANISM: Homo sapiens	tggt 1020 tata 1080 aata 1140
131 <400> SEQUENCE: 4 133 Met Arg Pro Gln Gly Pro Ala Ala Ser Pro Gln Arg Leu Arg Gly Le	20
133 Met Arg Pro Gin Gly Pro Ara Ara Ser Pro Gin Mry 264 Mry 627 26 134 1 5 10 15	7
136 Leu Leu Leu Leu Leu Gln Leu Pro Ala Pro Ser Ser Ala Ser Gl	lu
137 20 25 30	
139 Ile Pro Lys Gly Lys Gln Lys Ala Gln Leu Arg Gln Arg Glu Val Va	al
140 35 40 45	•
142 Asp Leu Tyr Asn Gly Met Cys Leu Gln Gly Pro Ala Gly Val Pro Gl	ly
143 50 55 60	
145 Arg Asp Gly Ser Pro Gly Ala Asn Gly Ile Pro Gly Thr Pro Gly Il	le
146 65 70 75 80	
148 Pro Gly Arg Asp Gly Phe Lys Gly Glu Lys Gly Glu Cys Leu Arg Gl	Lu
149 85 90 95	or
151 Ser Phe Glu Glu Ser Trp Thr Pro Asn Tyr Lys Gln Cys Ser Trp Se	21
152 100 105 110 154 Ser Leu Asn Tyr Gly Ile Asp Leu Gly Lys Ile Ala Glu Cys Thr Ph	he
100	
155 115 120 125 157 Thr Lys Met Arg Ser Asn Ser Ala Leu Arg Val Leu Phe Ser Gly Se	er
157 Thi By's Net Alig Sel Asia Sel Alia Lea May 142 200 140 158 130 135 140	
160 Leu Arg Leu Lys Cys Arg Asn Ala Cys Cys Gln Arg Trp Tyr Phe Th	hr
161 145 150 155 16	60
163 Phe Asn Gly Ala Glu Cys Ser Gly Pro Leu Pro Ile Glu Ala Ile Il	le
164 165 170 175	
166 Tyr Leu Asp Gln Gly Ser Pro Glu Met Asn Ser Thr Ile Asn Ile H	is
167 180 185 190	
169 Arg Thr Ser Ser Val Glu Gly Leu Cys Glu Gly Ile Gly Ala Gly Le	eu
170 195 200 205	1
172 Val Asp Val Ala Ile Trp Val Gly Thr Cys Ser Asp Tyr Pro Lys Gl	тÀ
173 210 215 220	111
175 Asp Ala Ser Thr Gly Trp Asn Ser Val Ser Arg Ile Ile Ile Glu G	40
176 225 230 235 24 178 Leu Pro Lys	
176 Let P10 Lys 181 <210> SEQ ID NO: 5	
182 <211> LENGTH: 277	
183 <212> TYPE: PRT	•
184 <213> ORGANISM: Rattus sp.	
186 <400> SEQUENCE: 5	
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189 1 5 10 15	

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191 Cys Arg Pro Leu Cys Leu Leu Cys Ala Ser Gln Leu Pro His Thr
      194 Met His Pro Gln Gly Arg Ala Ala Ser Pro Gln Leu Leu Gly Leu
      195
                 -35
                                      40
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      200 Ser Glu Asn Pro Lys Val Lys Gln Lys Ala Leu Ile Arg Gln Arg Glu
      203 Val Val Asp Leu Tyr Asn Gly Met Cys Leu Gln Gly Pro Ala Gly Val
      206 Pro Gly Arg Asp Gly Ser Pro Gly Ala Asn Gly Ile Pro Gly Thr Pro
                     100
                                          105
     209 Gly Ile Pro Gly Arg Asp Gly Phe Lys Gly Glu Lys Gly Glu Cys Leu
                                      120
     212 Arg Glu Ser Phe Glu Glu Ser Trp Thr Pro Asn Tyr Lys Gln Cys Ser
             130
                                  135
     215 Trp Ser Ser Leu Asn Tyr Gly Ile Asp Leu Gly Lys Ile Ala Glu Cys
     216 145
                              150
                                                  155
     218 Thr Phe Thr Lys Met Arg Ser Asn Ser Ala Leu Arg Val Leu Phe Ser
     219
                         165
                                              170
     221 Gly Ser Leu Arg Leu Lys Cys Arg Asn Ala Cys Cys Gln Arg Trp Tyr
     222
                                          185
     224 Phe Thr Phe Asn Gly Ala Glu Cys Ser Gly Pro Leu Pro Ile Glu Ala
                                      200
     227 Ile Ile Tyr Leu Asp Gln Gly Ser Pro Glu Leu Asn Ser Thr Ile Asn
     228
     230 Ile His Arg Thr Ser Ser Val Glu Gly Leu Cys Glu Gly Ile Gly Ala
     231 225
                             230
                                                  235
     233 Gly Leu Val Asp Val Ala Ile Trp Val Gly Thr Cys Ser Asp Tyr Pro
     234
                         245
                                              250
     236 Lys Gly Asp Ala Ser Thr Gly Trp Asn Ser Val Ser Arg Ile Ile Ile
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                                          265
     239 Glu Glu Leu Pro Lys
     240
                 275
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     244 <212> TYPE: RNA .
     245 <213> ORGANISM: Artificial Sequence
     247 <220> FEATURE:
     248 <223> OTHER INFORMATION: Description of Artificial Sequence: REMODELIN antisense
ribonucleoprobe
     250 <400> SEQUENCE: 6
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     252 gucuaccagu ccagcaccaa ucccuucaca gaguccuucc acggaggaag uacgaugaau
                                                                               120
     253 auuaauaguu gaauuuaacu cagggcuucc uugguccaga uagaugauag cuucaauggg
                                                                               180
    254 aagagguccu gaacauucag cuccauuaaa gguaaaauac cagcguugac agcaagcauu
                                                                               240
    255 ccugcauuug agccgaagcg agccacugaa cagaacucga agagcgcugu uggaucgcau
                                                                               300
    256 cuuugugaau guacauuccg caauuuuccc aagaucuaug ccauaauuaa gugaacucca
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    257 ugaacacugc uuguaguuug ggguccagga uuccucaaag cuu
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TIME: 14:14:39

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Input Set : A:\053689-5006-01.ST25.txt
                     Output Set: N:\CRF3\01282002\J045992.raw
    260 <211> LENGTH: 15
     261 <212> TYPE: PRT
     262 <213> ORGANISM: Artificial Sequence
     264 <220> FEATURE:
    265 <223> OTHER INFORMATION: Description of Artificial Sequence:carboxy-terminal amino
acids of REMODELIN
     267 <400> SEOUENCE: 7
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                         5
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     273 <211> LENGTH: 24
     274 <212> TYPE: PRT
     275 <213> ORGANISM: Artificial Sequence
     277 <220> FEATURE:
    278 <223> OTHER INFORMATION: Description of Artificial Sequence:insulin signal peptide
     280 <400> SEQUENCE: 8
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     290 <212> TYPE: DNA
     291 <213> ORGANISM: Artificial Sequence
     293 <220> FEATURE:
     294 <223> OTHER INFORMATION: Description of Artificial Sequence: myc-tagged REMODELIN
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     296 <400> SEQUENCE: 9
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     299 aagcgctgat ccggcagagg gaagtggtag acctgtataa tgggatgtgc ctacaaggac
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     305 ttacctttaa tggagctgaa tgttcaggac ctcttcccat tgaagctatc atctatctgg
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     306 accaaggaag ccctgagtta aattcaacta ttaatattca tcgtacttcc tccgtggaag
                                                                               600
     307 gactctgtga agggattggt gctggactgg tagacgtggc catctgggtc ggcacctgtt
                                                                               660
     308 cagattaccc caaaggagac gettetactg ggtggaatte tgtgteeege ateateattg
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                                                                               734
     309 aagaactacc aaaa
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RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/045,992

VERIFICATION SUMMARY

DATE: 01/28/2002

PATENT APPLICATION: US/10/045,992

TIME: 14:14:40

Input Set : A:\053689-5006-01.ST25.txt Output Set: N:\CRF3\01282002\J045992.raw

L:9 M:270 C: Current Application Number differs, Replaced Current Application No

L:9 M:271 C: Current Filing Date differs, Replaced Current Filing Date